

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 310121.407	APPLICATION NO.
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT Charles L. Gray, Jr.	
		FILING DATE September 25, 2003	GROUP ART UNIT

U.S. PATENT DOCUMENTS

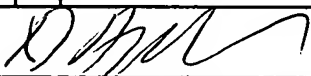
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1M	AA	4,335,429	06/15/82	Kawakatsu	364	424	
	AB	5,081,365	01/14/92	Field et al.	290	45	
	AC	5,176,213	01/05/93	Kawai et al.	180	243	
	AD	5,327,987	07/12/94	Abdelmalek	180	65.2	
	AE	5,495,912	03/05/96	Gray, Jr. et al.	180	165	
	AF	5,549,087	08/27/96	Gray, Jr. et al.	123	254	
	AG	5,562,079	10/08/96	Gray, Jr.	123	276	
	AH	5,579,640	12/03/96	Gray, Jr. et al.	60	413	
	AI	5,609,131	03/11/97	Gray, Jr. et al.	123	299	
4	AJ	5,611,300	03/18/97	Gray, Jr.	123	48 A	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
1M	AK	WO 01/51870 A1	07/19/01	WIPO		
	AL					
	AM					
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	

EXAMINER 	DATE CONSIDERED 12/09/04
---	-----------------------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 310121.407		APPLICATION NO.	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT Charles L. Gray, Jr.		GROUP ART UNIT	
				FILING DATE September 25, 2003			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
M	BA	5,617,823	04/08/97	Gray, Jr. et al.	123	254	
	BB	5,698,955	12/16/97	Nii	318	139	
	BC	5,806,617	09/15/98	Yamaguchi	180	65.2	
	BD	5,842,534	12/01/98	Frank	180	65.2	
	BE	5,887,674	03/30/99	Gray, Jr.	180	307	
	BF	5,899,828	05/04/99	Yamazaki et al.	477	4	
	BG	5,984,033	11/16/99	Tamagawa et al.	180	65.2	
	BH	6,026,921	02/22/00	Aoyama et al.	180	65.2	
	BI	6,054,844	04/25/00	Frank	322	16	
	BJ	6,116,363	09/12/00	Frank	180	65.2	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION			
				YES	NO		
BK							
BL							
BM							
BN							
BO							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BP							
BQ							
BR							
EXAMINER			DATE CONSIDERED <u>12/09/04</u>				
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 310121.407	APPLICATION NO.
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT Charles L. Gray, Jr.	
		FILING DATE September 25, 2003	GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
117	CA	6,123,163	09/26/00	Otsu et al.	180	65.8	
	CB	6,155,954	12/05/00	Itoyama et al.	477	5	
	CC	6,170,524 B1	01/09/01	Gray, Jr.	137	625.18	
	CD	6,186,126 B1	02/13/01	Gray, Jr.	123	557	
	CE	6,189,493 B1	02/20/01	Gray, Jr.	123	52.4	
	CF	6,202,416 B1	03/20/01	Gray, Jr.	60	620	
	CG	6,216,462 B1	04/17/01	Gray, Jr.	60	616	
	CH	6,232,733 B1	05/15/01	Obayashi et al.	318	432	
	CI	6,253,866 B1	07/03/01	Kojima	180	65.2	
	CJ	6,269,290 B1	07/31/01	Egami et al.	701	22	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CK					
	CL					
	CM					
	CN					
	CO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CP	
	CQ	
	CR	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 310121.407	APPLICATION NO.
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT Charles L. Gray, Jr.	
		FILING DATE September 25, 2003	GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>jm</i>	DA	6,278,915 B1	08/21/01	Deguchi et al.	701	22	
	DB	6,290,012 B1	09/18/01	Matsubara et al.	180	65.4	
	DC	6,301,888 B1	10/16/01	Gray, Jr.	60	605.2	
	DD	6,301,891 B2	10/16/01	Gray, Jr.	60	616	
	DE	6,307,277 B1	10/23/01	Tamai et al.	290	40 C	
	DF	6,317,665 B1	11/13/01	Tabata et al.	701	22	
	DG	6,318,486 B2	11/20/01	Masaki	180	65.2	
	DH	6,321,143 B1	11/20/01	Phillips et al.	701	22	
<i>g</i>	DI	6,326,702 B1	12/04/01	Yonekura et al.	290	40 C	
	DJ	6,330,498 B2	12/11/01	Tamagawa et al.	701	22	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	DK					
	DL					
	DM					
	DN					
	DO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DP	
	DQ	
	DR	

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>12/08/04</i>
-----------------------------	---------------------------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 310121.407	APPLICATION NO.
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT Charles L. Gray, Jr.	
		FILING DATE September 25, 2003	GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
17	EA	6,334,079 B1	12/25/01	Matsubara et al.	701	22	
	EB	6,343,252 B1	01/29/02	Asami et al.	701	113	
	EC	6,352,489 B1	03/05/02	Kuroda et al.	477	5	
	ED	6,358,180 B1	03/19/02	Kuroda et al.	477	4	
	EE	6,367,570 B1	04/09/02	Long, III et al.	180	65.2	
	EF	2002/0052677 A1	05/02/02	Lasson et al.	701	22	
	EG	2002/0055411 A1	05/09/02	Yoshiaki et al.	477	107	
	EH	6,394,209 B1	05/28/02	Goehring et al.	180	65.4	
	EI	2002/0065165 A1	05/30/02	Lasson et al.	477	3	
	EJ	6,415,607 B1	07/09/02	Gray, Jr.	60	616	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	EK					
	EL					
	EM					
	EN					
	EO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	EP	
	EQ	
	ER	

EXAMINER	DATE CONSIDERED
----------	-----------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
310121.407APPLICATION NO.
10/672,732SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

APPLICANT

Charles L. Gray, Jr.

FILING DATE

September 25, 2003

GROUP ART UNIT

2834

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
IM	AA	2004/0178635 A1	09/16/04	Gray, Jr.	290	40 C	
	AB	6,190,282 B1	02/20/01	Deguchi et al.	477	5	
	AC	6,083,138	07/04/00	Aoyama et al.	477	5	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
IM	AK	EP 1 211 117 A1	06/05/02	EPO		
	AL					
	AM					
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).